

Integration Cables designed by MAGUIRE Enterprises for GE Healthcare devices.

A summary of cabling solutions that support connectivity between the listed GE devices and external systems for physiologic analog signal transfer, PC-based EMR data transfer, and device alarm signal transfer.

Signal transfer has a starting point and a destination. We suggest that you keep this in mind when reviewing our information. Ask yourself "where is the patient connected" (starting point) and where do I want to deliver that signal (destination). As always, we welcome your questions regarding connected devices and systems.

Use charts below to identify the cabling options for **ECG and IBP** signal transfer **FROM** a GE Healthcare monitor **TO** one or more peripheral devices:

Analog Output of GE Healthcare Carescape One Monitor or PDM - Patient Data Module



BENEFIT OF INTERCONNECT CABLES: Integrating two physiologic monitors is a smart way to reduce the cable clutter associated with attaching multiple sets of patient cables and electrodes. MAGUIRE addresses this problem with cables that transfer ECG & IBP signal from the 'DEFIB/SYNC Analog Output' of the PDM module or Carescape One monitor, to another physiologic monitor. This efficient method of connecting equipment provides synchronized waveforms onto both displays.

Choose from these direct-connect cables to advance ECG and/or IBP signal from the PDM module or Carescape One monitor to one slaved device:



| Device Type | Model(s) | Signal | Part# |
|--|-----------------------------------|-----------|---------------------------|
| Defibrillator: <i>Physio-Control</i> | all models | ECG | ME590185K |
| Defibrillator: <i>Zoll Medical</i> | R, X and M Series | ECG | ME590185 |
| Balloon Pumps: <i>Getinge/Maquet/Datascope</i> | all models | ECG & IBP | ME590185P |
| Balloon Pumps: <i>Getinge/Maquet/Datascope</i> | most models | ECG only | ME590185M |
| CCO Monitor: <i>ECOM, Edwards LifeSciences</i> | Hemosphere and Vigilance II | IBP | ME590280R |
| CCO Monitor: <i>Edwards LifeSciences</i> | Hemosphere and Vigilance II | ECG & IBP | ME590185H |
| Ultrasound: <i>GE Healthcare</i> | Vivid i and q | ECG | ME590185F |
| Ultrasound: <i>GE Healthcare</i> | S5, S6, S60, S70 | ECG | ME590184G |
| Ultrasound: <i>GE Healthcare</i> | Vivid 5, 7, E9, E95, Logiq Series | ECG | ME590185Q |
| Ultrasounds: <i>Philips</i> | all models via the AUX ECG input | ECG | ME590185M |

Improve Perioperative Efficiency Across Departments with Analog Output Multipliers

The efficient OR monitoring system must factor in the static equipment as well as additional critical devices that may arrive with the incoming patient. And depending upon the type of procedure, the devices and monitors required can vary widely. For this reason, MAGUIRE has designed and developed cable products that help stakeholders achieve optimal physiologic monitoring arrangements. The most favorable configurations allow integrated equipment to share vital signs and waveforms. Toward this end, MAGUIRE offers the *Analog Output Multiplier* which enables critical monitors to *simultaneously* advance the patient's ECG and IBP signals and waveforms *onto multiple device displays* such as that of a defibrillator, balloon pump, ultrasound, cardiac monitor, pacer programmer *and more* . When using this method of integration, the demand for redundant sets of electrodes and patient cables is minimized. Additionally, waveforms will be synchronized across devices. Having critical equipment and monitors pre-connected via an *Analog Output Multiplier* speeds up the patient setup; allowing staff to quickly focus on diagnosis and delivery of care. When using our *257 Series multipliers*, you get the added benefit of standardized 1/4" phone plug outputs. These rugged connections make it fast and simple to switch out equipment as needed or for failure and preventive maintenance. For over 50 years, thousands have discovered the benefits of MAGUIRE's integration products. To enhance and standardize your periop system across the CVOR, Hybrid, Cath and EP Lab, PACU and other departments, choose from these GE Healthcare compatible *Output Multipliers* .

1) Select the '257 Series' multiplier that corresponds with the GE monitor's analog output.

[ME590257P](#): Patient Data Module, CareScape One
Defib/Sync Analog output

[ME590257F](#): 7 pin MINI DIN analog output

2) Select up to four ECG interconnect/slave cables from the output multiplier to:

[ME590338J](#): Balloon Pump (ECG signal only via 1/4" AUX input)

[ME590006K](#): Defibrillator - Physio Control LifePak (via patient cable input, Lead II)

[ME590335](#): Defibrillator - Zoll Medical (via patient cable input, Lead II)

[ME590132F](#): Ultrasound - GE Vivid i-q Ultrasound (via patient cable input)

[ME590132](#): Ultrasound - GE Vivid 5,7,9, E95, Logiq Series (via patient cable input)

[ME590338J](#): Ultrasound - Philips (via 1/4" AUX ECG input)

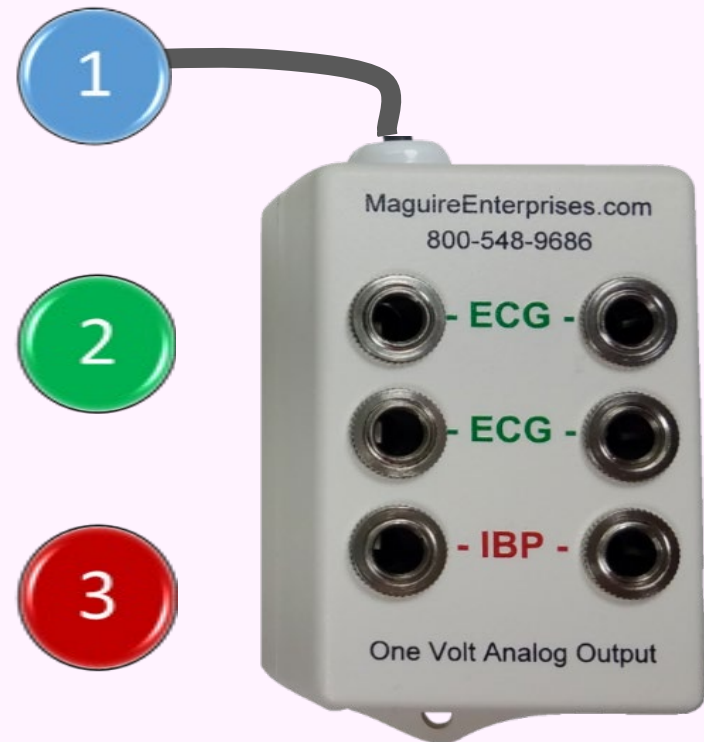
[ME590338J](#): Ultrasound - Siemens/Acuson (via 1/4" AUX ECG input)

3) Select two ECG & IBP interconnect/slave cables from the output multiplier to:

[ME590265E](#): CCO monitor - Edwards Hemosphere or Vigilance II
(cable is bifurcated to deliver ECG & IBP signal via AUX inputs)

[ME590265P](#): Balloon Pump
(cable is bifurcated to deliver ECG & IBP signal via AUX inputs)

[ME590338J](#): Balloon Pump (IBP signal only via 1/4" AUX input)



**GE Healthcare analog output connections:
DEFIB/SYNC Analog Output or 7 pin MINI DIN.**



BENEFIT of a 257 Series OUTPUT MULTIPLIER: When the patient condition demands *many* connected physiologic monitors, use this model to advance the analog signal from the primary monitor onto the displays of numerous devices. Our 257 Series works by first adapting the monitor's output, then maximizing it to allow simultaneous ECG & IBP signal transfer to multiple devices such as the defibrillator, balloon pump, ultrasound, cardiac monitor, pacer programmer and more. As with all output multipliers, they reduce the need for redundant sets of connected patient cables. **The '257 Series Multiplier' is desirable because it provides rugged, standardized outputs that allow equipment to be moved and still be compatible between different care areas.**

The 257 Series Analog Output Multiplier connects to a PDM module, Carescape One Monitor, or any monitor with a 7 pin MINI DIN output. These multipliers enable slaved connections to as many as SIX devices, *simultaneously* !



The ME590257P and ME590257F standardize outputs to be 1/4" phone jacks, which can then be used in series with any combination of the following cables to advance the analog signal:

| Device Type | Model(s) | Signal | Part# |
|---|-----------------------------------|------------|---------------------------|
| Defibrillator: <i>Physio-Control</i> | LifePak models | ECG | ME590006K |
| Defibrillator: <i>Zoll Medical</i> | R, X and M Series | ECG | ME590335 |
| Balloon Pump: ECG & IBP as a bifurcated cable | most models | ECG & IBP | ME590265P |
| Balloon Pump: ECG <u>or</u> IBP | most models | ECG or IBP | ME590338J |
| CO Monitor: ECOM, Edwards LifeSciences | most models | IBP | ME590333S |
| CO Monitor: Edwards LifeSciences | Hemosphere Vigilance II | ECG & IBP | ME590265H |
| Ultrasound: <i>GE Healthcare</i> | S5, S6, S60, S70 | ECG | ME590184F |
| Ultrasound: <i>GE Healthcare</i> | Vivid 5, 7, E9, E95, Logiq Series | ECG | ME590132 |
| Ultrasound: <i>GE Healthcare</i> | Vivid i and q | ECG | ME590132F |
| Ultrasound: <i>Philips</i> | all models via the AUX ECG input | ECG | ME590338J |

**DEFIB/SYNC Analog Output of GE Healthcare
Carescape One Monitor or PDM - Patient Data Module**



BENEFIT OF THE ME550PDM7 OUTPUT MULTIPLIER:
When the patient condition demands a few additional slaved physiologic monitors, ECG and IBP signal can be advanced from the 'DEFIB/SYNC Analog Output' of the PDM module or Carescape One monitor, allowing simultaneous signal transfer onto the displays of additional equipment such as the defibrillator, balloon pump, ultrasound, cardiac monitor, or pacer programmer. **This multiplier is desirable when slaving the PDM module to no more than three of these devices via 7 pin MINI DIN slave cables.**

Use Adapter/Multiplier ME550PDM7 to connect the PDM module or Carescape One to as many as **THREE** slaved devices, *simultaneously!*



The ME550PDM7 adapts the DEFIB/SYNC output to 7 pin MINI DIN ports and is used in series with any combination of the following cables to advance the analog signal:

| Device Type | Model(s) | Signal | Part# |
|--------------------------------------|-----------------------------------|-----------|--------------------------|
| Defibrillator: <i>Physio-Control</i> | LifePak models | ECG | ME590261 |
| Defibrillator: <i>Zoll Medical</i> | R, X and M Series | ECG | ME590260 |
| Balloon Pump: ECG & IBP | most models | ECG & IBP | ME590265 |
| Balloon Pump: ECG only | most models | ECG | ME590264 |
| CO Monitor: Edwards LifeSciences | Hemosphere Vigilance II | ECG & IBP | ME590265F |
| Ultrasound: <i>GE Healthcare</i> | S5, S6, S60, S70 | ECG | ME590184 |
| Ultrasound: <i>GE Healthcare</i> | Vivid 5, 7, E9, E95, Logiq Series | ECG | ME590269 |
| Ultrasound: <i>GE Healthcare</i> | Vivid i and q | ECG | ME590132Q |
| Ultrasound: <i>Philips</i> | all models via the AUX ECG input | ECG | ME590264 |

Analog Output of the GE Healthcare monitor:



BENEFIT of the ME550MD3 MULTIPLIER: This model triples the analog output port of the GE monitor for simultaneous ECG and/or IBP signal transfer to three critical devices. **This multiplier is desirable when slaving to fewer devices and continuing to use existing 7 pin MINI DIN slave cables.**

Use Multiplier ME550MD3 multiplier to connect the monitor's analog output to as many as THREE slaved devices, *simultaneously* .



The ME550MD3 multiplies the single 7 pin MINI DIN output and is used in series with any combination of the following cables to advance the analog signal:

| Device Type | Model(s) | Signal | Part# |
|--|-----------------------------------|------------|--------------------------|
| Defibrillator: <i>Physio-Control</i> | LifePak all models | ECG | ME590261 |
| Defibrillator: <i>Zoll Medical</i> | R, X and M Series | ECG | ME590260 |
| Balloon Pump: ECG & IBP | most models | ECG & I BP | ME590265 |
| Balloon Pump: ECG only | most models | ECG | ME590264 |
| CO Monitor: ECOM, Edwards LifeSciences | Hemosphere Vigilance II | IBP | ME590280 |
| CO Monitor: Edwards LifeSciences | Hemosphere Vigilance II | ECG & IBP | ME590265F |
| Ultrasound: <i>GE Healthcare</i> | S5, S6, S60, S70 | ECG | ME590184 |
| Ultrasound: <i>GE Healthcare</i> | Vivid 5, 7, E9, E95, Logiq Series | ECG | ME590269 |
| Ultrasound: <i>GE Healthcare</i> | Vivid i and q | ECG | ME590132Q |
| Ultrasound: <i>Philips</i> | all models via the AUX ECG input | ECG | ME590264 |

Specialty connections between GE patient cables, transducers and defibrillators.

Product Capability

Allows the *GE Healthcare* patient cable to mate to the **ECG input** of Physio-Control LifePak defibrillators.

Allows the *GE Healthcare* patient cable to mate to the **ECG input** of Zoll Medical defibrillators.

Allows the Zoll Medical patient cable to mate to the **ECG input** of the *GE Healthcare* monitor.

Allows the *GE Healthcare* 11 pin IBP patient cable to mate to the **IBP inputs** of equipped Physio-Control or Zoll Medical defibrillators.

Allows the Edwards TruWave Transducer to connect to the **IBP input** of *GE Healthcare* monitors.

Allows the Abbott / Hospira, Medex, ICU Medical Transpac IV transducer to connect to the **IBP input** of *GE Healthcare* monitors.

Benefit

Quickly adapt the *GE Healthcare* patient cable for monitoring or transporting with LifePak defibrillator. When added to crash carts, input adapters establish standardized connections throughout critical care areas.

Quickly adapt the *GE* patient cable for monitoring or transporting with Zoll Medical defibrillators. When added to crash carts, input adapters establish standardized connections throughout critical care areas.

Adapts the defibrillator patient cable for quick connection to the input of a *GE Healthcare* monitor or select model ultrasound.

Switch invasive pressure display from the primary monitor to either **Physio-Control LifePak** or **Zoll Medical** defibrillators with little or no interruption of workflow. Patients receive fast delivery of care with fewer disruptions.

Easily display invasive pressure and waveform onto a *GE Healthcare* physiologic monitor.

Easily display invasive pressure and waveform onto a *GE Healthcare* physiologic monitor.



[ME5902305](#)



[ME590230G](#)



[ME5900207](#)



[ME581](#)



ME584G



ME585M

...more Specialty Integration Solutions for GE Healthcare devices.

| <p>Balloon Pump</p> <p>Datascope CS300, Maquet Cardiosave Balloon Pump. Provide a low-level IBP pressure output to a <i>GE Healthcare</i> monitor.</p> |  <p style="text-align: right;">ME590180E</p> | <p style="text-align: center;">BENEFIT</p> <p style="text-align: center;">Display synchronized blood pressure waveforms on the <i>GE Healthcare</i> monitor.</p> |
|--|--|---|
| <p>Extension</p> <p>Increases the length of the <i>GE Healthcare</i> ECG patient cable.</p> |  <p style="text-align: right;">ME579G</p> | <p>Longer length patient cables mean equipment is never out of reach. Patients are also able to move about more freely.</p> |
| <p>Nurse Call Alarm</p> <p>Connect the <i>GE Healthcare</i> Carestation and Carescope R860 Ventilators to the headwall jack for audible alarm transfer to the central nurses station. <i>(Includes GE Isolation Cable #2070436-001 not shown).</i></p> |  <p style="text-align: right;">ME590147J</p> | <p>A cost effective way to improve patient outcomes and meet Joint Commission requirements.</p> |
| <p>Nurse Call Alarm</p> <p>Connect the <i>GE Healthcare</i> Ventilator DB15 male output to DB15 Female Cerner EMR input and DB15 Female <i>GE Healthcare</i> Carestation Ventilator Nurse alarm output.</p> |  <p style="text-align: right;">ME562N</p> | <p>Connect to EMR systems and the central nurses station with one convenient splitter.</p> |
| <p>Stress Test Machine:</p> <p><i>GE Healthcare</i> Case 8000, T2100 or Max 1 Stress Tester Treadmill ECG to Philips Healthcare and Siemens Ultrasounds.</p> |  <p style="text-align: right;">ME590239</p> | <p>Display a synchronized ECG waveform on both devices from a single patient cable.</p> |
| <p>Stress Test Machines:</p> <p><i>GE Healthcare</i> Case 8000, T2100 or Max 1 Stress Tester Treadmill ECG to all <i>GE Healthcare</i> Monitors and select Ultrasound models Vivid 5, 7, E9, E95 and Logiq Series.</p> |  <p style="text-align: right;">ME590239H</p> | <p>Display a synchronized ECG waveform on both devices from a single patient cable.</p> |

EMR Integration Solutions for GE Healthcare devices.

Serial Data Cables

Part#

GE Patient Monitors including CARESCAPE Monitor B850/B650/B450 Data Cable - (6 ft length). *Includes ATEN-232A adapter.*



DB9 Female to
DB9 Female

ME560031

Datex-Ohmeda AM, Compact AM, FM, Cardiocap 5, Light Data Cable - Null Modem (8'length).



DB9 Female to
DB9 Female

ME560032

GE B105, B125, B40 Patient Monitor Data Cable- (6' length).



DB9 Male to
DB9 Female

ME560033

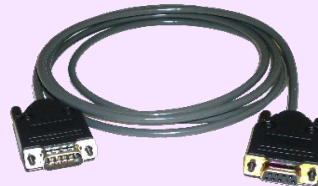
GE Anesthesia Machines Aestiva, Aespire, Aespire View, Avance, Avance CS2 , Aisys, Aisys CS2 , Carestation 620/650/650c Data Cable - Modem (9' length).



DB15 Male to
DB9 Female

ME560034

CARESCAPE R860 Ventilator Data Cable - (6'length). *Includes GE required Serial Isolation cable.*



DB9 Male to
DB9 Female

ME560035

GE Dash 3000/4000/5000 Data Cable - (9' length).



RJ45 to
DB9 Female

ME560036